GUAM 2005 FISHERY STATISTICS

Compiled by

Guam Division of Aquatic and Wildlife Resources

and the

Western Pacific Fishery Information Network

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GUAM 2005 FISHERY STATISTICS

INTRODUCTION

The Territory of Guam is the southernmost, largest, and most populous island in the Mariana Archipelago.

Location: 13.4°N latitude, 144.4°E longitude

Population: about 173,500 (The World Factbook, 2007)

Economy: U.S. military and tourism



Guam

Source: https://www.cia.gov/library/publications/the-world-factbook/maps/gq-map.gif;
The World Factbook

Fishing activities on Guam are divided into two basic categories: offshore and inshore fishing. Offshore fishing typically involves small boats (12 to 48 feet) going on 1- to 2-day trolling and bottomfishing trips. They usually originate from one of the three principal harbors located on the west coast and southern tip of the island. Inshore fishing is usually conducted without the use of a boat and consists mostly of nearshore casting, netting, and spearfishing.

In 1982, WPacFIN began working with staff of the Division of Aquatic and Wildlife Resources (DAWR) and with local fish dealers to obtain information on commercial landings through voluntary use of "trip ticket" invoices provided by WPacFIN. The tables and graphs in this section are based on data that are summarized from receipts submitted by all participating dealers on Guam and then adjusted to create the estimated total commercial landings based on an estimated annual percent coverage factor.

COMMERCIAL LANDINGS DATA COLLECTING SYSTEM

There are three sources of fish in Guam's commercial market: (1) full-time commercial fishers; (2) part-time commercial fishers; and (3) subsistence or recreational "expense" fishers who frequently sell portions of their catch to help defray costs. Licenses are not required to sell fish in Guam, nor are there any reporting requirements for those selling fish.

In July 1979 the Guam Fishermen's Coop was established in Agana through government funding. It subsequently became the central distribution center for fresh local fish. Prior to 1979 there was no central place to sell fish, and fishers had to develop their own markets and peddle fish after each trip.

In 1982, WPacFIN began working with the Coop to improve their invoicing system and to obtain data on all fish purchases. A cooperative system was established whereby the Coop would use forms and coding schemes designed by WPacFIN and would supply copies of all invoices to WPacFIN for computer data entry. In return, WPacFIN would provide the Coop with document quality control and computer-generated summary statistics. All purchase data back to July 1979 were also coded and computerized. As time progressed, other fish markets began to operate, and DAWR and WPacFIN staff worked with them to obtain data through the voluntary receipt book program.

Although a proposed law has been introduced several times that would require reporting by dealers and possibly commercial fishers, it has never made it very far through the legislative process, and the commercial landings data collection system remains voluntary.

Data collected on commercial receipts forms include

- Date
- Number of Fishermen
- Area Fished
- Number of Pieces Caught
- Price per Pound

- Fisherman Code
- Hours Fished
- Species Caught
- Pounds Caught

COMMERCIAL LANDINGS DATA PROCESSING SYSTEM

In earlier years data were processed at the central WPacFIN office in Honolulu. Beginning in 1994, however, DAWR staff took over this task using a computer and software provided by WPacFIN. The processing system for the commercial landings data collected from the fish dealers is fairly straightforward. Dealers complete a purchase form every time they purchase fish from a fisherman. On this form, catches are divided into categories for weighing by species or species group (where practicable, number of pieces is also recorded). Once all the edits, adjustments, verifications, and corrections are made, summary reports are generated. Numerous standard reports are available, but only the monthly and annual landings by species are provided in this document.

COMMERCIAL LANDINGS DATA REPORTING SYSTEM

After completing all editing, adjusting, and quality control activities for the commercial landings data, monthly and annual summary reports by species are generated. Each table contains information on the pounds, value, and the average price per pound for each species or species group. Each monthly report contains a subtotal for the sum of all species combined for that month. Annual reports contain the estimated total landings for each species and the estimated total recorded landings for all species for the calendar year. Included with the estimated commercial landings summary reports are graphs of some of the important statistics.

Please note that commercial landings data have been adjusted to reflect total coverage and are referenced as "Estimated Commercial Landings" in the charts and tables. Also, some of the charts in this volume are new or modified from earlier volumes.

To access the most up-to-date data and charts, please visit the WPacFIN Website at http://www.pifsc.noaa.gov/wpacfin.

The following groupings of species, species categories, and abbreviations are used in the tables and graphs for Guam's commercial landings:

Note: Many of the species included in this report have been recategorized over the years. For example, the Magnuson Fishery Conservation and Management Act of 1976 was amended in 1992 to include tunas in the Pelagic Management Unit Species (PMUS) category. However, this FSWP volume will maintain the original species categorizations from previous volumes for comparative purposes. As such, tunas are kept in a separate category.

I. Pelagic Management Unit Species (PMUS)

Mahimahi (dolphin)

Marlin (probably all blue but possibly striped or black)

Spearfish

Sailfish

Wahoo

Sharks

II. Bottomfish Management Unit Species (BMUS)

Jacks (unclassified but excluding bigeye scad)

Amberjack

Bottomfish (unclassified)

Ehu (red snapper)

Gindai (flower snapper)

Grouper

Kalekale (pink snapper)

II. Bottomfish Management Unit Species (BMUS) (cont.)

Lehi (silverjaw snapper) Onaga (red or longtail snapper) Opakapaka (pink snapper) Uku (gray snapper) Emperor (mafute)

III. Billfish

Marlin (probably all blue but possibly striped or black) Spearfish Sailfish

IV. Tunas

Tunas (unclassified) Skipjack tuna Yellowfin tuna Dogtooth or white tuna Kawakawa

V. Other Tuna

All the above tunas excluding skipjack and yellowfin tunas

VI. Fisheries Categories

A. Pelagic Species

All PMUS and tuna species plus the following:

Troll fish (unclassified) Barracuda Rainbow runner

B. Bottomfish

Same as the BMUS

VI. Fisheries Categories (cont.)

C. Reef Fish

Reef fish (unclassified)
Giant wrasse
Rabbitfish
Surgeonfish
Rudderfish
Squirrelfish
Goatfish
Parrotfish
Suapper
Surgeonfish
Unicornfish
Goatfish

D. Other

Miscellaneous (unclassified)

Bigeye scad

Mullet

Eels

Octopus

Milkfish

Invertebrates (unclassified)

Crabs (unclassified)

INTERPRETATION OF STATISTICS

The user is reminded again to pay heed to the precautions and assumptions identified earlier in this document when making interpretations of or inferences from data reported in the tables and graphs. Remember also that the commercial landings summaries are adjusted numbers based on samples of fishing activities.

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Table C-1 2005 Estimated Commercial Landings

Species	Pounds	Value	Price/Lb.
Unknown	65	\$162	\$2.50
Fillets	19	\$42	\$2.25
Miscellaneous	286	\$858	\$3.00
Bigeye scad (atulai)	982	\$3,004	\$3.06
Black jack	2,304	\$5,274	\$2.29
Jacks	2,364	\$5,845	\$2.47
Napoleon wrasse	191	\$515	\$2.69
Sharks	21	\$513 \$51	\$2.50
Eel (freshwater - old code)	11	\$42	\$4.00
Milkfish	37	\$94	\$2.52
Bottom fish	52	\$26	\$0.50
Alfonsin	9	\$9	\$1.00
Ehu (red snapper)	396	\$1,549	\$3.91
Gindai (flower snapper)	740	\$2,770	\$3.74
Grouper	2,006	\$5,434	\$2.71
Kalikali (pink snapper)	403	\$1,233	\$3.06
Lehi (silverjaw)	904	\$3,285	\$3.64
Onaga (red snapper)	5,020	\$23,926	\$4.77
Opakapaka (pink snapper)	347	\$1,379	\$3.97
Uku (gray snapper)	1,676	\$4,107	\$2.45
Tagafi (red snapper)	57	\$109	\$1.91
Amberjack	964	\$2,607	\$2.70
Reef fish	86,307	\$252,000	\$2.70
Wrasse	1,396	\$3,756	\$2.69
Rabbitfish	879	\$2,576	\$2.93
Rudderfish (guilli)	374	\$1,064	\$2.85
Mafute (emperor)	3,886	\$9,985	\$2.57
Parrotfish	1,164	\$3,039	\$2.61
Snapper	621	\$1,628	\$2.62
Surgeonfish	707	\$1,890	\$2.67
Unicornfish	22,861	\$61,218	\$2.68
Goatfish	227	\$588	\$2.59
Troll fish	32	\$65	\$2.00
Barracuda	1,801	\$3,260	\$1.81
Mahi/dolphinfish	81,266	\$121,632	\$1.50
Marlin	22,849	\$24,470	\$1.07
Spearfish	108	\$24,470 \$111	
Sailfish	1,398	\$111 \$1,757	\$1.03 \$1.26
Rainbow runner	4,313	\$1,737 \$7,108	
	4,313 1,384		\$1.65 \$2.16
Monchong Wahoo		\$2,991 \$67,308	\$2.16 \$1.05
	34,545 34,212		\$1.95 \$1.06
Bonita/skipjack tuna		\$36,264 \$2,824	\$1.06 \$1.00
Dogtooth tuna	2,581	\$2,824	\$1.09

C.7 Table C-1 (cont.)

Species	Pounds	Value	Price/Lb.
X/ 11 C' /	20,710	Φ50 411	Φ2.04
Yellowfin tuna	28,610	\$58,411	\$2.04
Crabs (misc)	25	\$73	\$2.87
Lobster	2,704	\$9,182	\$3.40
Octopus	4,860	\$12,516	\$2.58
TOTAL	357,965	\$748,036	\$2.09

C.8

Table C-2 January 2005 Estimated Commercial Landings

Species	Pounds	Value	Price/Lb.
5	_	0.1	Φ2.55
Black jack	6	\$16	\$2.75
Jacks	136	\$345	\$2.54
Gindai (flower snapper)	2	\$9	\$4.00
Grouper	107	\$288	\$2.69
Lehi (silverjaw)	12	\$43	\$3.50
Onaga (red snapper)	595	\$2,436	\$4.10
Opakapaka (pink snapper)	17	\$68	\$4.00
Uku (gray snapper)	23	\$58	\$2.51
Amberjack	140	\$376	\$2.69
Reef fish	5,887	\$17,188	\$2.92
Wrasse	99	\$253	\$2.55
Rabbitfish	56	\$169	\$3.00
Mafute (emperor)	22	\$58	\$2.66
Unicornfish	2,081	\$5,273	\$2.53
Goatfish	22	\$54	\$2.50
Barracuda	90	\$173	\$1.92
Mahi/dolphinfish	11,271	\$17,068	\$1.51
Sailfish	168	\$252	\$1.50
Rainbow runner	151	\$233	\$1.54
Monchong	83	\$182	\$2.20
Wahoo	4,159	\$7,907	\$1.90
Bonita/skipjack tuna	1,515	\$1,807	\$1.19
Dogtooth tuna	164	\$183	\$1.12
Yellowfin tuna	1,487	\$2,807	\$1.89
Lobster	179	\$525	\$2.94
Octopus	191	\$476	\$2.50
TOTAL	28,662	\$58,249	\$2.03

Table C-3
February 2005 Estimated Commercial Landings

Species	Pounds	Value	Price/Lb.
D	_	0.1.2	Φ2.25
Black jack	6	\$13	\$2.25
Jacks	172	\$401	\$2.32
Gindai (flower snapper)	16	\$66	\$4.00
Grouper	162	\$442	\$2.73
Kalikali (pink snapper)	6	\$19	\$3.00
Onaga (red snapper)	78	\$311	\$4.00
Uku (gray snapper)	5	\$15	\$2.75
Reef fish	8,193	\$23,773	\$2.90
Wrasse	131	\$361	\$2.75
Rabbitfish	69	\$204	\$2.93
Rudderfish (guilli)	41	\$122	\$3.00
Mafute (emperor)	243	\$567	\$2.33
Snapper	8	\$19	\$2.25
Unicornfish	1,679	\$4,757	\$2.83
Goatfish	52	\$131	\$2.50
Barracuda	144	\$265	\$1.84
Mahi/dolphinfish	16,648	\$24,532	\$1.47
Marlin	797	\$945	\$1.19
Sailfish	49	\$49	\$1.00
Rainbow runner	264	\$395	\$1.50
Wahoo	4,448	\$8,514	\$1.91
Bonita/skipjack tuna	2,625	\$2,567	\$0.98
Dogtooth tuna	112	\$112	\$1.00
Yellowfin tuna	2,209	\$4,150	\$1.88
Lobster	74	\$272	\$3.69
Octopus	104	\$275	\$2.64
TOTAL	38,337	\$73,274	\$1.91

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Table C-4 March 2005 Estimated Commercial Landings

Species	Pounds	Value	Price/Lb.
Jacks	53	\$123	\$2.33
Alfonsin	9	\$9	\$1.00
Grouper	89	\$226	\$2.55
Uku (gray snapper)	21	\$58	\$2.75
Tagafi (red snapper)	29	\$51	\$1.75
Reef fish	8,995	\$26,180	\$2.91
Rabbitfish	266	\$798	\$3.00
Mafute (emperor)	63	\$168	\$2.66
Unicornfish	2,025	\$5,709	\$2.82
Barracuda	71	\$141	\$2.00
Mahi/dolphinfish	14,329	\$21,120	\$1.47
Marlin	1,274	\$1,380	\$1.08
Spearfish	58	\$58	\$1.00
Sailfish	54	\$54	\$1.00
Rainbow runner	161	\$242	\$1.50
Wahoo	3,481	\$6,798	\$1.95
Bonita/skipjack tuna	3,515	\$3,520	\$1.00
Dogtooth tuna	220	\$220	\$1.00
Yellowfin tuna	4,161	\$8,443	\$2.03
Lobster	149	\$541	\$3.63
Octopus	238	\$600	\$2.52
TOTAL	39,259	\$76,439	\$1.95

C.11

Table C-5 April 2005 Estimated Commercial Landings

Species	Pounds	Value	Price/Lb.
DI I : I	20	Φ.CO	Φ2.50
Black jack	28	\$69	\$2.50
Jacks	50	\$123	\$2.43
Gindai (flower snapper)	45	\$181	\$4.00
Grouper	32	\$93	\$2.88
Kalikali (pink snapper)	8	\$25	\$3.00
Lehi (silverjaw)	4	\$15	\$3.75
Uku (gray snapper)	66	\$165	\$2.49
Tagafi (red snapper)	28	\$58	\$2.08
Reef fish	7,734	\$22,569	\$2.92
Rabbitfish	61	\$184	\$3.00
Mafute (emperor)	62	\$166	\$2.69
Snapper	11	\$26	\$2.44
Surgeonfish	22	\$59	\$2.72
Unicornfish	1,562	\$3,916	\$2.51
Barracuda	215	\$316	\$1.47
Mahi/dolphinfish	13,108	\$19,385	\$1.48
Marlin	1,316	\$1,509	\$1.15
Sailfish	242	\$242	\$1.00
Rainbow runner	265	\$398	\$1.50
Monchong	54	\$108	\$2.00
Wahoo	4,544	\$8,876	\$1.95
Bonita/skipjack tuna	4,314	\$4,194	\$0.97
Dogtooth tuna	215	\$215	\$1.00
Yellowfin tuna	2,731	\$5,156	\$1.89
Lobster	219	\$820	\$3.75
Octopus	224	\$589	\$2.62
TOTAL	37,161	\$69,458	\$1.87

Table C-6

Table C-6
May 2005 Estimated Commercial Landings

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Species	Pounds	Value	Price/Lb.
Bigeye scad (atulai)	4	\$11	\$3.00
Black jack	325	\$757	\$2.33
Jacks	202	\$429	\$2.13
Sharks	21	\$51	\$2.50
Bottom fish	52	\$26	\$0.50
Ehu (red snapper)	58	\$231	\$4.00
Gindai (flower snapper)	232	\$794	\$3.42
Grouper	296	\$863	\$2.91
Kalikali (pink snapper)	138	\$418	\$3.04
Lehi (silverjaw)	111	\$390	\$3.53
Onaga (red snapper)	651	\$3,213	\$4.94
Opakapaka (pink snapper)	114	\$460	\$4.05
Uku (gray snapper)	205	\$491	\$2.39
Amberjack	80	\$193	\$2.41
Reef fish	7,878	\$22,659	\$2.88
Mafute (emperor)	751	\$1,978	\$2.63
Unicornfish	1,113	\$3,102	\$2.79
Troll fish	14	\$28	\$2.00
Barracuda	319	\$550	\$1.72
Mahi/dolphinfish	3,055	\$5,192	\$1.70
Marlin	1,985	\$1,952	\$0.98
Rainbow runner	630	\$945	\$1.50
Monchong	239	\$478	\$2.00
Wahoo	1,470	\$3,073	\$2.09
Bonita/skipjack tuna	3,521	\$3,556	\$1.01
Dogtooth tuna	478	\$483	\$1.01
Yellowfin tuna	2,239	\$4,298	\$1.92
Lobster	212	\$746	\$3.52
Octopus	354	\$941	\$2.66
TOTAL	26,744	\$58,305	\$2.18

C.13

Table C-7
June 2005 Estimated Commercial Landings

Species	Pounds	Value	Price/Lb.
Black jack	218	\$531	\$2.44
Jacks	220	\$579	\$2.63
Ehu (red snapper)	54	\$202	\$3.77
Gindai (flower snapper)	19	\$56	\$3.00
Grouper	171	\$462	\$2.70
Kalikali (pink snapper)	3	\$9	\$3.00
Lehi (silverjaw)	31	\$116	\$3.81
Onaga (red snapper)	662	\$3,202	\$4.84
Opakapaka (pink snapper)	4	\$10	\$2.75
Uku (gray snapper)	149	\$364	\$2.45
Amberjack	56	\$138	\$2.45
Reef fish	7,104	\$20,573	\$2.90
Wrasse	30	\$68	\$2.25
Rabbitfish	18	\$26	\$1.50
Mafute (emperor)	426	\$991	\$2.32
Parrotfish	79	\$217	\$2.75
Snapper	76	\$216	\$2.84
Unicornfish	1,060	\$2,823	\$2.66
Goatfish	41	\$124	\$3.00
Barracuda	155	\$281	\$1.82
Mahi/dolphinfish	491	\$840	\$1.71
Marlin	7,468	\$7,518	\$1.01
Spearfish	38	\$38	\$1.00
Sailfish	165	\$234	\$1.42
Rainbow runner	629	\$943	\$1.50
Monchong	215	\$490	\$2.28
Wahoo	572	\$1,282	\$2.24
Bonita/skipjack tuna	5,252	\$5,185	\$0.99
Dogtooth tuna	228	\$228	\$1.00
Yellowfin tuna	5,911	\$12,299	\$2.08
Lobster	184	\$600	\$3.25
Octopus	665	\$1,760	\$2.65
TOTAL	32,392	\$62,405	\$1.93

Table C-8
July 2005 Estimated Commercial Landings

C.14

Species	Pounds	Value	Price/Lb
Black jack	955	\$2,173	\$2.27
Jacks	417	\$1,054	\$2.53
Eel (Freshwater Old code)	11	\$42	\$4.00
Ehu (red snapper)	97	\$388	\$4.00
Gindai (flower snapper)	148	\$574	\$3.8
Grouper	178	\$515	\$2.90
Kalikali (pink snapper)	61	\$184	\$3.00
Lehi (silverjaw)	13	\$45	\$3.50
Onaga (red snapper)	1,009	\$4,948	\$4.9
Opakapaka (pink snapper)	38	\$151	\$4.00
Uku (gray snapper)	613	\$1,497	\$2.44
Amberjack	164	\$395	\$2.4
Reef fish	7,892	\$22,945	\$2.9
Rabbitfish	17	\$26	\$1.50
Mafute (emperor)	1,155	\$2,978	\$2.5
Snapper	259	\$663	\$2.50
Unicornfish	1,404	\$3,774	\$2.69
Barracuda	185	\$361	\$1.9
Mahi/dolphinfish	581	\$649	\$1.12
Marlin	3,592	\$4,041	\$1.1
Sailfish	174	\$256	\$1.4
Rainbow runner	658	\$1,039	\$1.58
Monchong	328	\$742	\$2.20
Wahoo	688	\$1,549	\$2.2
Bonita/skipjack tuna	3,883	\$3,876	\$1.0
Dogtooth tuna	466	\$475	\$1.0
Yellowfin tuna	2,174	\$4,436	\$2.0
Crabs (misc)	12	\$35	\$3.0
Lobster	353	\$1,312	\$3.7
Octopus	723	\$1,864	\$2.5
TOTAL	28,246	\$62,985	\$2.23

C.15

Table C-9 August 2005 Estimated Commercial Landings

Species	Pounds	Value	Price/Lb.
Unknown	8	\$21	\$2.50
Black jack	256	\$591	\$2.30
Jacks	484	\$1,237	\$2.56
Ehu (red snapper)	55	\$205	\$3.75
Gindai (flower snapper)	102	\$408	\$4.00
Grouper	291	\$ 7 90	\$2.72
Kalikali (pink snapper)	149	\$450	\$3.02
Lehi (silverjaw)	243	\$910	\$3.02
Onaga (red snapper)	368	\$1,825	\$4.96
Opakapaka (pink snapper)	30	\$1,823	\$4.00
Uku (gray snapper)	121	\$285	\$2.36
Amberjack	38	\$283 \$101	\$2.50
Reef fish	8,349	\$24,588	\$2.03 \$2.95
Wrasse	6,349 442	\$1,215	\$2.93 \$2.75
Rabbitfish	6	\$1,213 \$16	\$2.73 \$2.45
	382		
Mafute (emperor)		\$990	\$2.59
Parrotfish	538	\$1,346	\$2.50
Snapper	87	\$241	\$2.76
Unicornfish	1,683	\$4,320	\$2.57
Barracuda	86	\$164	\$1.89
Mahi/dolphinfish	175	\$291	\$1.67
Marlin	2,599	\$2,544	\$0.98
Sailfish	101	\$126	\$1.25
Rainbow runner	428	\$805	\$1.88
Monchong	142	\$319	\$2.25
Wahoo	320	\$720	\$2.25
Bonita/skipjack tuna	1,860	\$2,179	\$1.17
Dogtooth tuna	104	\$139	\$1.34
Yellowfin tuna	615	\$1,194	\$1.94
Crabs (misc)	14	\$37	\$2.75
Lobster	314	\$1,154	\$3.68
Octopus	802	\$2,099	\$2.62
TOTAL	21,189	\$51,431	\$2.43

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Table C-10 September 2005 Estimated Commercial Landings

Species	Pounds	Value	Price/Lb
		*	
Bigeye scad (atulai)	329	\$1,122	\$3.41
Black jack	76	\$167	\$2.18
Jacks	258	\$611	\$2.37
Milkfish	12	\$32	\$2.57
Ehu (red snapper)	61	\$242	\$4.00
Gindai (flower snapper)	24	\$94	\$4.00
Grouper	300	\$793	\$2.64
Kalikali (pink snapper)	5	\$19	\$3.50
Lehi (silverjaw)	196	\$722	\$3.68
Onaga (red snapper)	406	\$2,032	\$5.00
Opakapaka (pink snapper)	111	\$436	\$3.92
Uku (gray snapper)	145	\$384	\$2.65
Amberjack	84	\$230	\$2.73
Reef fish	5,615	\$16,536	\$2.93
Wrasse	348	\$951	\$2.73
Rabbitfish	21	\$64	\$3.00
Rudderfish (guilli)	28	\$71	\$2.50
Mafute (emperor)	271	\$715	\$2.64
Parrotfish	215	\$560	\$2.6
Snapper	53	\$142	\$2.68
Surgeonfish	353	\$924	\$2.6
Unicornfish	2,322	\$6,203	\$2.6
Barracuda	66	\$118	\$1.77
Mahi/dolphinfish	474	\$899	\$1.90
Marlin	1,912	\$2,348	\$1.23
Rainbow runner	201	\$411	\$2.04
Monchong	38	\$85	\$2.25
Wahoo	558	\$1,232	\$2.2
Bonita/skipjack tuna	1,361	\$1,649	\$1.2
Dogtooth tuna	35	\$44	\$1.25
Yellowfin tuna	864	\$1,815	\$2.10
Lobster	291	\$1,092	\$3.75
Octopus	711	\$1,806	\$2.54
TOTAL	17,744	\$44,548	\$2.5

C.17

Table C-11 October 2005 Estimated Commercial Landings

Species	Pounds	Value	Price/Lb.
) (C. 11)	206	Φ0.70	¢2.00
Miscellaneous Pierre and (et 1-i)	286	\$858	\$3.00
Bigeye scad (atulai)	45	\$129	\$2.88
Black jack	434	\$958	\$2.21
Jacks	162	\$412	\$2.54
Napoleon Wrasse	37	\$102	\$2.75
Ehu (red snapper)	72	\$281	\$3.88
Gindai (flower snapper)	104	\$397	\$3.84
Grouper	343	\$853	\$2.49
Kalikali (pink snapper)	6	\$18	\$3.00
Lehi (silverjaw)	268	\$954	\$3.56
Onaga (red snapper)	655	\$2,974	\$4.54
Opakapaka (pink snapper)	32	\$127	\$4.00
Uku (gray snapper)	176	\$424	\$2.41
Amberjack	189	\$538	\$2.84
Reef fish	6,961	\$20,501	\$2.95
Wrasse	346	\$908	\$2.63
Rudderfish (guilli)	78	\$194	\$2.50
Mafute (emperor)	391	\$1,045	\$2.67
Parrotfish	266	\$718	\$2.70
Snapper	11	\$29	\$2.75
Surgeonfish	109	\$272	\$2.50
Unicornfish	2,879	\$7,458	\$2.59
Barracuda	184	\$343	\$1.87
Mahi/dolphinfish	5,856	\$8,609	\$1.47
Marlin	1,152	\$1,079	\$0.94
Rainbow runner	459	\$831	\$1.81
Monchong	198	\$412	\$2.08
Wahoo	2,803	\$5,221	\$1.86
Bonita/skipjack tuna	1,802	\$2,283	\$1.27
Dogtooth tuna	294	\$353	\$1.20
Yellowfin tuna	2,987	\$6,289	\$2.11
Lobster	366	\$1,337	\$3.65
Octopus	543	\$1,391	\$2.56
TOTAL	30,494	\$68,298	\$2.24

C.18

Table C-12 November 2005 Estimated Commercial Landings

Species	Pounds	Value	Price/Lb.
Unknown	56	\$141	\$2.50
Bigeye scad (atulai)	605	\$1,743	\$2.88
Jacks	88	\$224	\$2.54
Napoleon Wrasse	89	\$234	\$2.63
Milkfish	25	\$62	\$2.50
Grouper	5	\$14	\$3.00
Onaga (red snapper)	54	\$268	\$5.00
Opakapaka (pink snapper)	2	\$7	\$3.00
Uku (gray snapper)	126	\$298	\$2.36
Reef fish	6,373	\$18,764	\$2.94
Rudderfish (guilli)	35	\$104	\$3.00
Mafute (emperor)	39	\$100	\$2.57
Snapper	29	\$74	\$2.50
Unicornfish	1,944	\$5,142	\$2.65
Barracuda	26	\$48	\$1.81
Mahi/dolphinfish	7,888	\$11,594	\$1.47
Marlin	526	\$802	\$1.53
Sailfish	141	\$176	\$1.25
Rainbow runner	228	\$396	\$1.74
Monchong	88	\$175	\$2.00
Wahoo	6,545	\$12,080	\$1.85
Bonita/skipjack tuna	3,559	\$4,062	\$1.14
Dogtooth tuna	25	\$25	\$1.00
Yellowfin tuna	1,865	\$4,376	\$2.35
Lobster	54	\$199	\$3.70
Octopus	195	\$441	\$2.26
TOTAL	30,610	\$61,549	\$2.01

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Table C-13
December 2005 Estimated Commercial Landings

Species	Pounds	Value	Price/Lb.
Fillets	19	\$42	\$2.25
Jacks	122	\$307	\$2.51
Napoleon Wrasse	65	\$180	\$2.75
Gindai (flower snapper)	48	\$191	\$4.00
Grouper	33	\$95	\$2.90
Kalikali (pink snapper)	26	\$93	\$3.50
Lehi (silverjaw)	25	\$89	\$3.50
Onaga (red snapper)	544	\$2,718	\$5.00
Uku (gray snapper)	26	\$68	\$2.64
Amberjack	212	\$635	\$3.00
Reef fish	5,328	\$15,722	\$2.95
Rabbitfish	364	\$1,091	\$3.00
Rudderfish (guilli)	192	\$573	\$2.98
Mafute (emperor)	82	\$230	\$2.81
Parrotfish	66	\$198	\$3.00
Snapper	88	\$220	\$2.51
Surgeonfish	223	\$635	\$2.85
Unicornfish	3,111	\$8,741	\$2.81
Goatfish	112	\$279	\$2.50
Troll fish	18	\$36	\$2.00
Barracuda	258	\$501	\$1.94
Mahi/dolphinfish	7,391	\$11,454	\$1.55
Marlin	229	\$354	\$1.54
Spearfish	12	\$15	\$1.25
Sailfish	304	\$367	\$1.21
Rainbow runner	240	\$468	\$1.95
Wahoo	4,958	\$10,055	\$2.03
Bonita/skipjack tuna	1,005	\$1,384	\$1.38
Dogtooth tuna	241	\$348	\$1.44
Yellowfin tuna	1,366	\$3,149	\$2.30
Lobster	311	\$585	\$1.88
Octopus	109	\$274	\$2.50
TOTAL	27,126	\$61,095	\$2.25

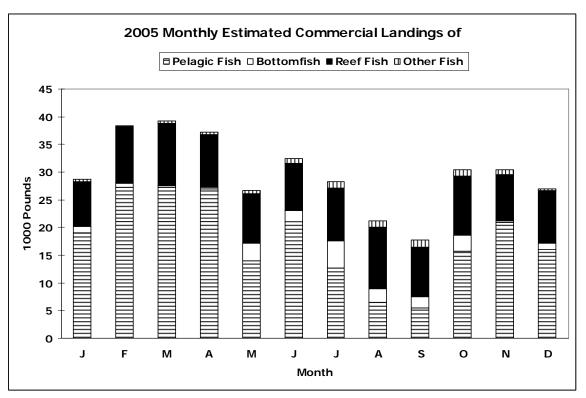


Figure C-1-1

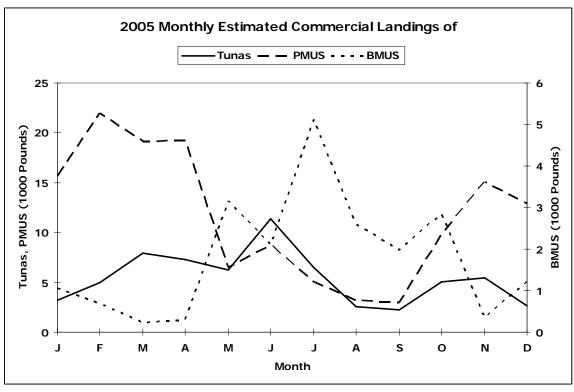


Figure C-1-2

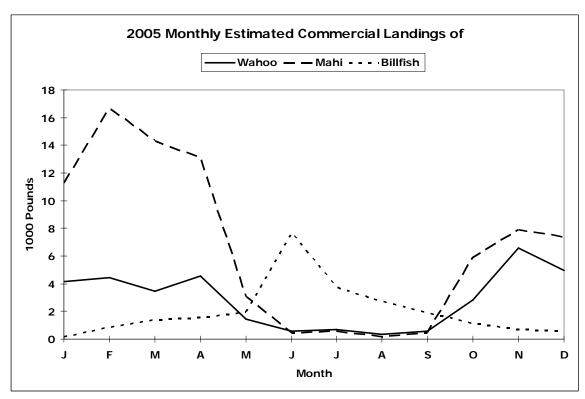


Figure C-1-3

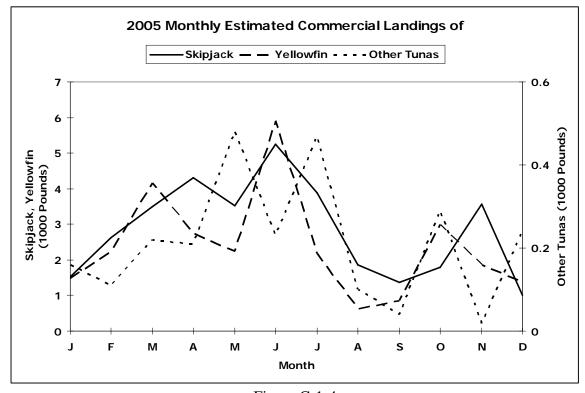


Figure C-1-4

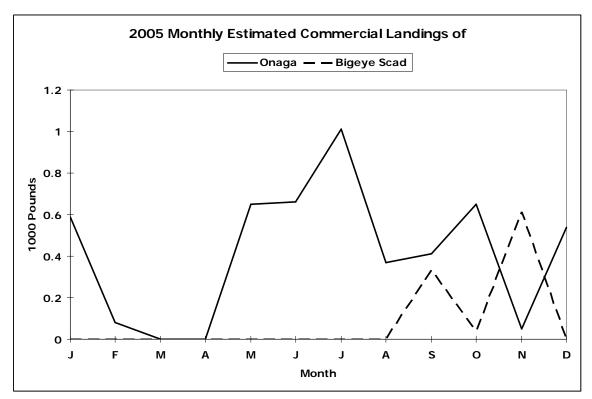


Figure C-1-5

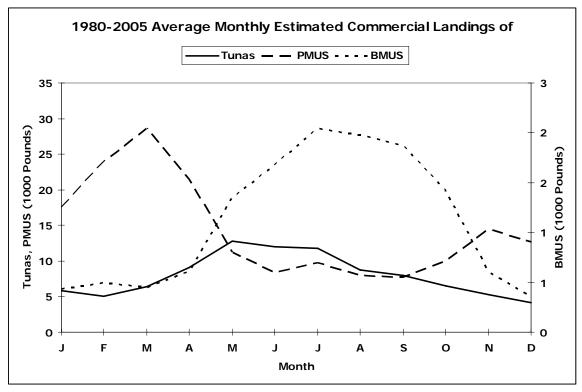


Figure C-2-1

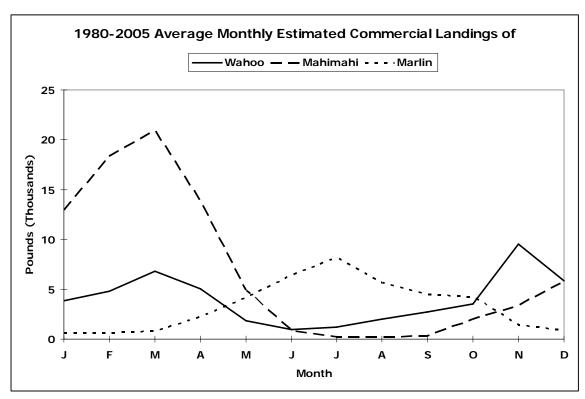


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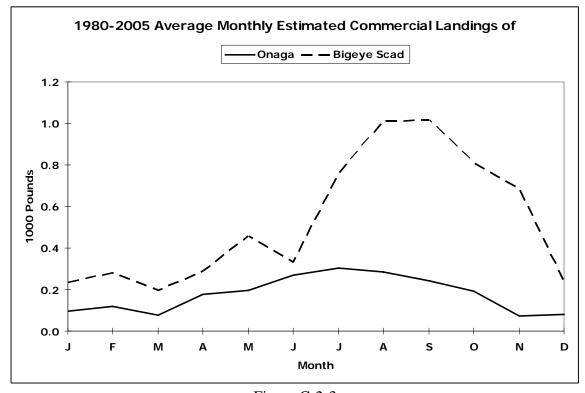


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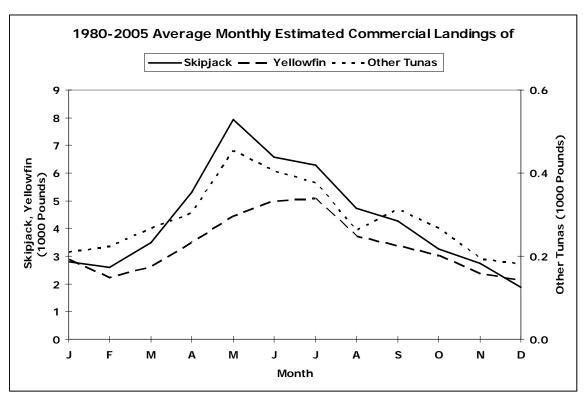


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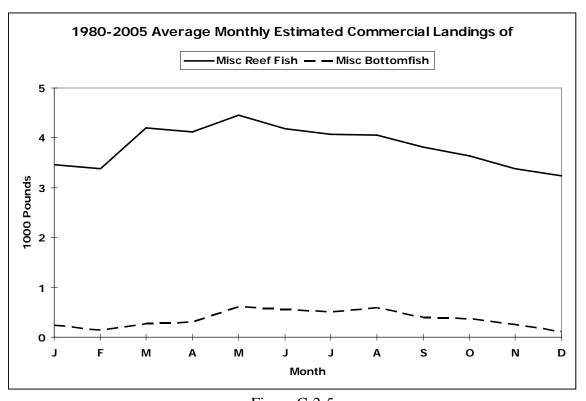


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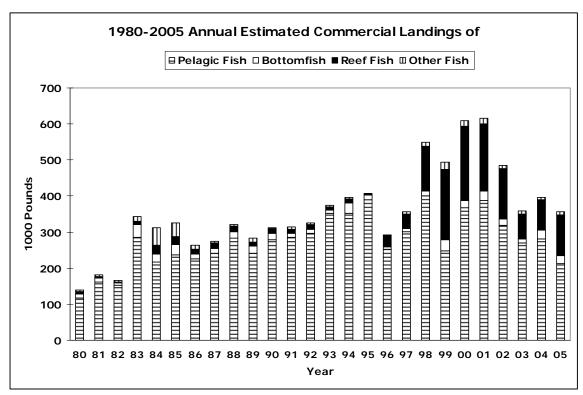


Figure C-3-1

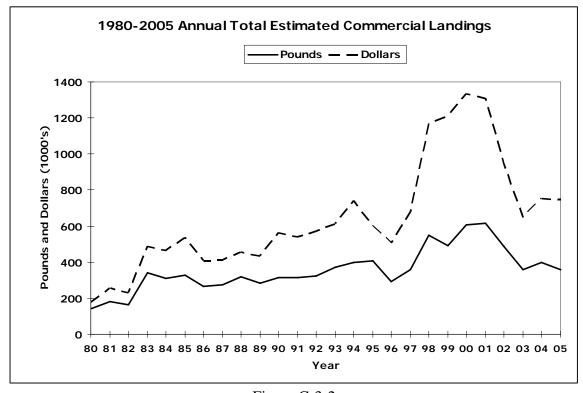


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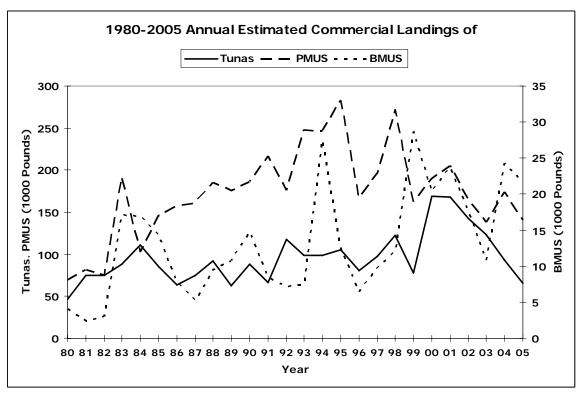


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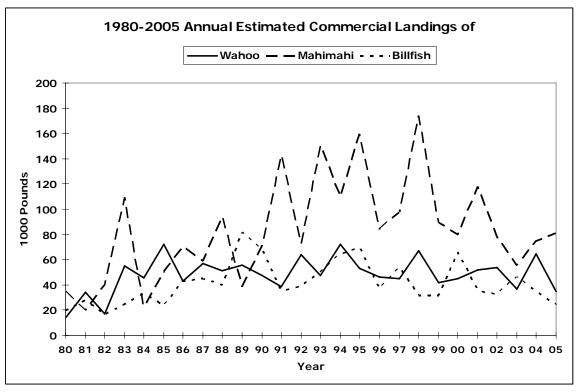


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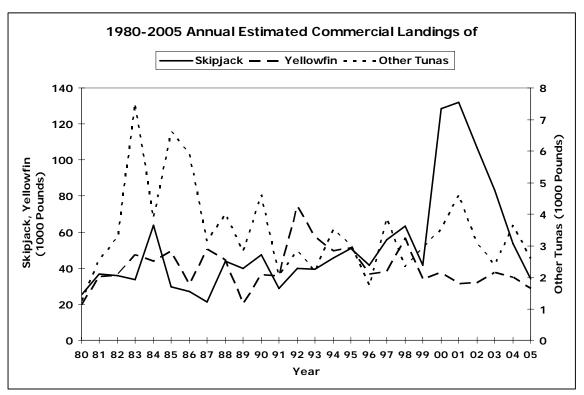


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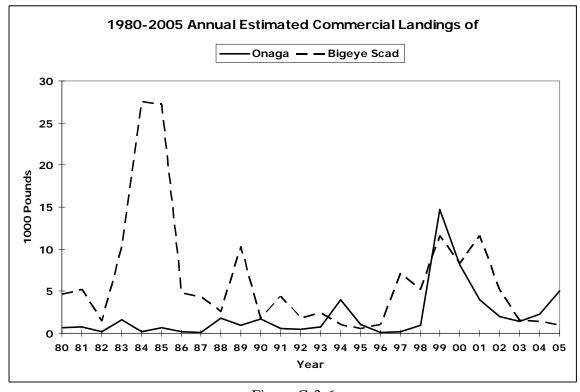


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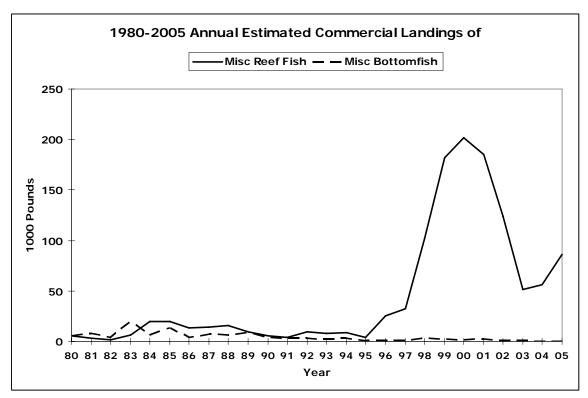


Figure C-3-7

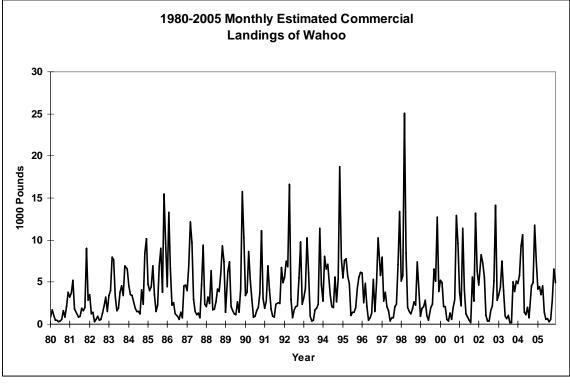


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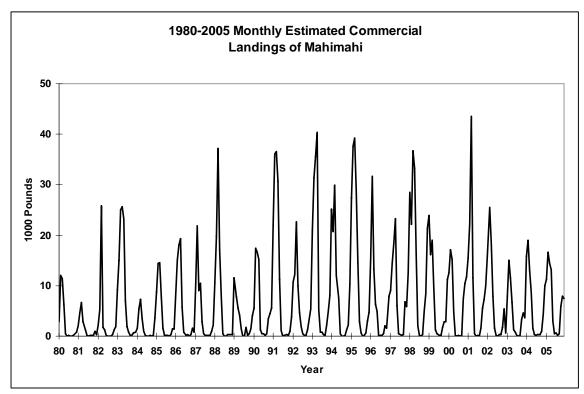


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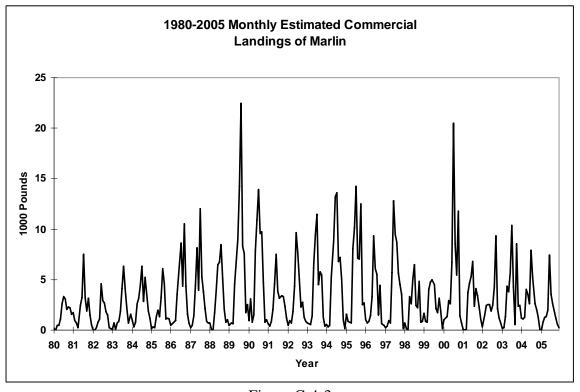


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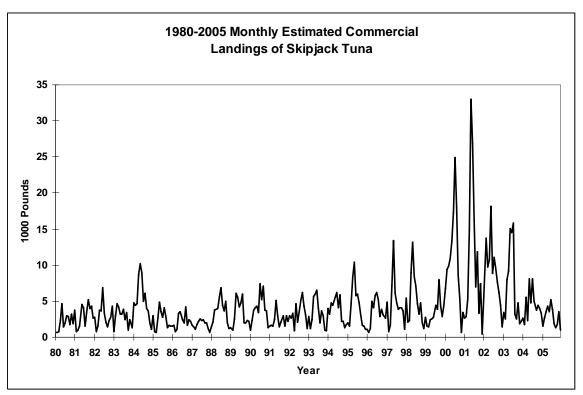


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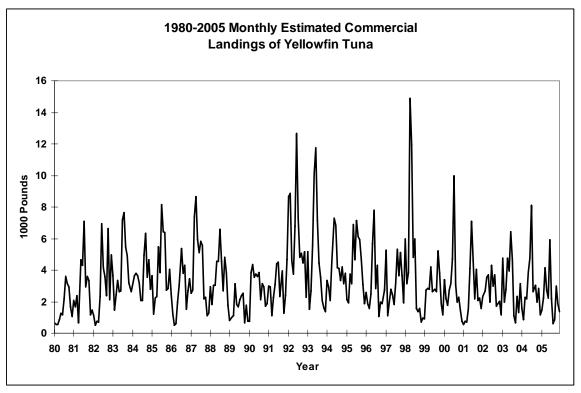


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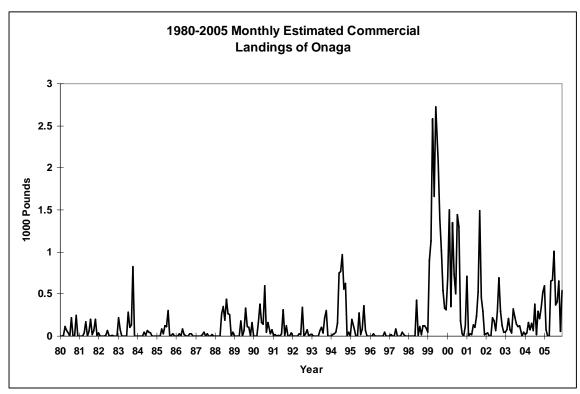


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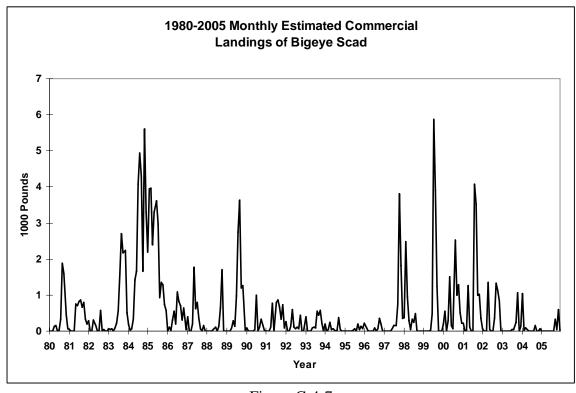


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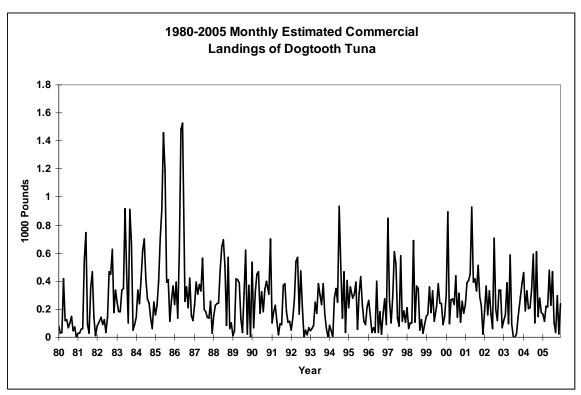


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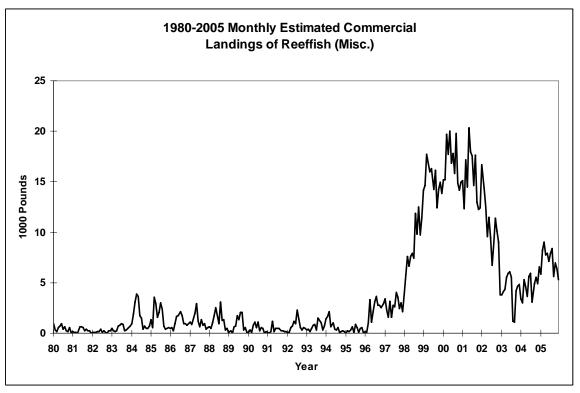


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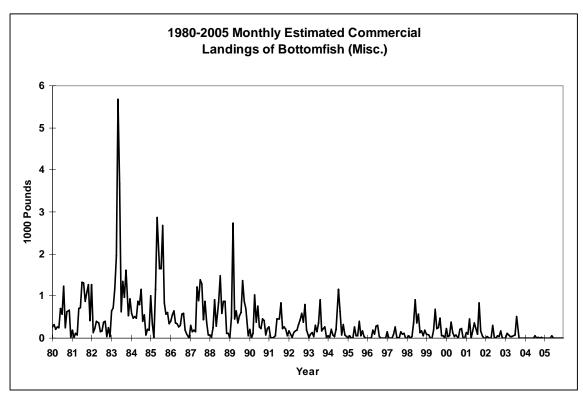


Figure C-4-10